

CLAIMS

We Claim:

1. A recording head for reading and writing information with respect to a rotating disk medium, said head including a pad region having a working surface which contacts said medium during the reading/writing process, a magnetic pole structure being embedded within said pad region, said pad region having a leading edge and a trailing edge with said leading edge facing in the general direction of relative motion between said head and said medium, and wherein said leading edge has a narrower width than said trailing edge.

2. The recording head of Claim 1 wherein said pad has a V-shape, with the narrow part of said V-shape pointing in said direction.

3. The recording head of Claim 1 wherein said pad has a U-shape, with the narrow part of said U-shape pointing in said direction.

4. The recording head of Claim 1 wherein said pad has a parabolic shape, with the narrow part of said parabolic shape pointing in said direction.

5. A slider for supporting a magnetic transducer above the surface of a rotating disk medium, said slider comprising:

a body;

a plurality of rail members extending outward from said body in a direction towards

said medium, each of said rail members having a leading and a trailing edge with said leading edge facing in the general direction of relative motion between said head and said medium, and wherein said leading edge has a narrower width as compared to said trailing edge;

each of said rail members also having an air-bearing surface which is alternately brought into contact with and separated from said surface of said medium, said air-bearing surface being generally parallel to said surface of said medium.

6. The slider of Claim 5 wherein each of said rail members has a V-shape, with the narrow part of said V-shape pointing in said direction.

7. The slider of Claim 5 wherein each of said rail members has a U-shape, with the narrow part of said U-shape pointing in said direction.

8. The recording head of Claim 5 wherein each of said rail members has a parabolic shape, with the narrow part of said parabolic shape pointing in said direction.

9. The slider of Claim 5 wherein said leading edges are tapered away from said working surface to create a lifting effect to maintain said body at a predetermined height above said surface of said medium.